

# Innova® S44i photosynthetic LED lights

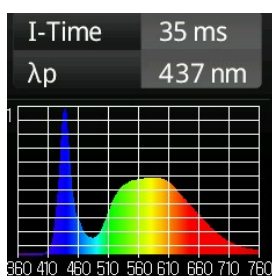
## Technical Specifications



Innova S44i refrigerated with LED lights

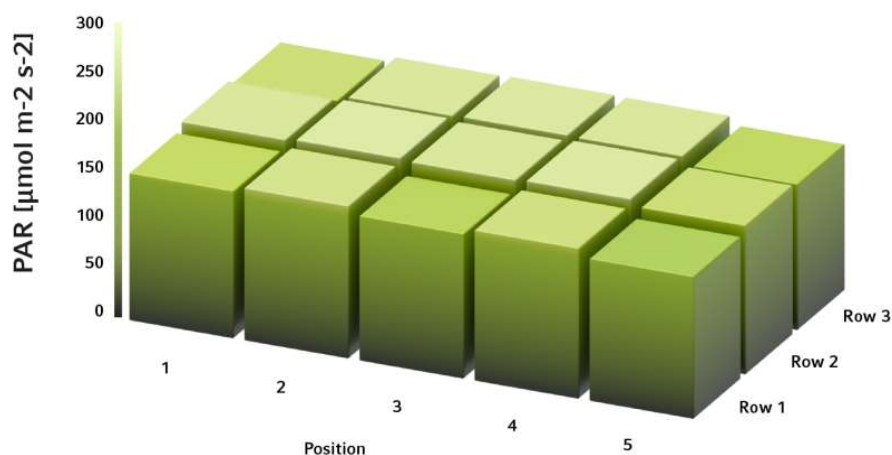
Technical specification	S44i photosynthetic LED lights
Minimum light intensity	15 PAR ( $\mu\text{mol m}^{-2} \text{s}^{-1}$ ) 1000 Lux
Maximum light intensity	150 PAR ( $\mu\text{mol m}^{-2} \text{s}^{-1}$ ) 10.000 Lux
Light distribution on platform	Uniformity of $\pm 10 \%$ (in PAR)
Spectral range	Daylight visible range between 400 nm – 700 nm (Figure 1.)
Adjustable light intensity	Yes, between 10-100 % (in increments of 5 %)
Refrigeration (S44i)	Obligatory
Programmability	The integrated S44i programming function offers full flexibility: different light intensities or on/off phases in a row can be programmed. Cycling of steps or whole programs e.g. to imitate circadian rhythms is also possible.
Upgradeable	Yes, on refrigerated units
Set chamber temperature range	20 °C below ambient to 80 °C
Average rated life	No drop in light intensity visible in long-term test (Tested over 3 years at max. intensity at 80 °C)
Maximum flask size	5 Liter Erlenmeyer flask
Use of static shelf	No

## Spectrum



**Fig. 1: Spectrum: Daylight between 400 nm – 700 nm.**

## Light Distribution on the Platform in $\mu\text{mol m}^{-2} \text{s}^{-1}$



**Fig. 2: Light distribution on the platform:** LED photosynthetic lights were set to 20 % (25 PAR) or 100 % (150 PAR) with window shade installed. Light intensity was measured in 15 positions on the platform. The measurements resulted in a uniformity of  $\pm 10\%$  across the platform (Data of the 20 % intensity set not shown).

## Window Shade Option



**Fig. 3: S44i with window shade option.** The window shade (Order no. S44I042002) can be easily placed in front of the door window to prevent light entering the chamber, e.g. for light sensitive applications or photosynthetic light applications. The window shade can easily be attached and removed again.

**Your local distributor: [www.eppendorf.com/contact](http://www.eppendorf.com/contact)**

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